



PDF Series Filter Cartridges

Unique Design Provides Safer Filtration of Hazardous Fluids

- Disposable filter cartridge/plastic housing element
- Virtually eliminates operator contact with fluid during changeover
- A wide variety of depth or pleated media filter cartridges available
- Available in retention ratings from 0.2 to 100 microns (μm)
- Economical alternative to expensive competitive capsules
- $\frac{1}{4}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ " or 1" NPT inlet and outlet connections available for use in most piping plans
- $\frac{1}{4}$ " vent allows the housing assembly to be easily vented or drained

Performance Specifications

Maximum Operating Pressure:

Liquid only: 75 psig (5.2 bar) @ 125°F (52°C)

Gas only¹: 40 psig (2.8 bar) @ 100°F (38°C)

Product Specifications

Materials of Construction:

Shell: Polypropylene

Head: Polypropylene

Shell to Head

Sealing Material: Polypropylene, electromagnetically heat sealed²

Cartridge to Head

Sealing Material: Polypropylene

Connection Sizes:

Inlet/Outlet: $\frac{1}{4}$ " (0.64 cm), $\frac{1}{2}$ " (1.27 cm),
 $\frac{3}{4}$ " (1.9 cm), 1" (2.5 cm)

Vent: $\frac{1}{4}$ " (0.64 cm) NPT, upstream

Drain: $\frac{1}{4}$ " (0.64 cm) NPT, downstream

Cartridge Selection Guide

DFT Classic® Filter Media:

Various

Duo-Fine® Filter Media:

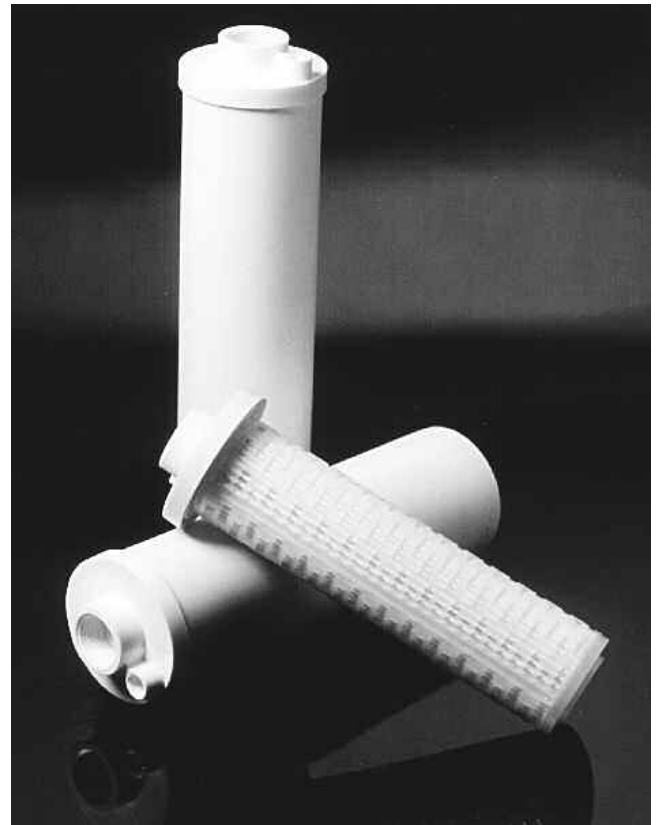
Pleated Microfiberglass

Nexis® Filter Media:

Melt Blown Depth Polypropylene

Poly-Fine® II Filter Media:

Pleated Polypropylene



¹ - CAUTION! Gas applications are inherently more hazardous than liquid service and strict adherence to the maximum recommended pressure/temperature is required.

² - Polypropylene wafer, mixed with a small amount of 400 series stainless steel, is electromagnetically heated. This process assures an excellent bond between the polypropylene head and polypropylene shell.

Poly-Fine ARD Filter Media:

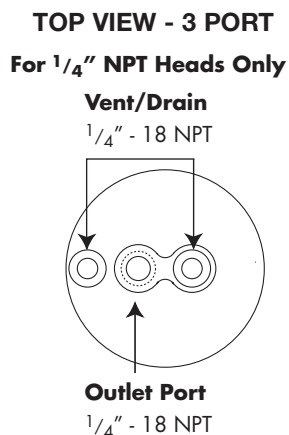
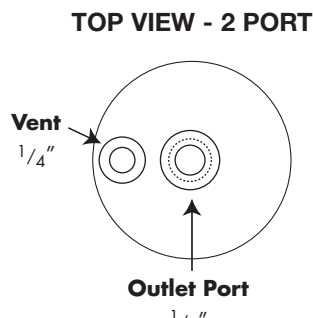
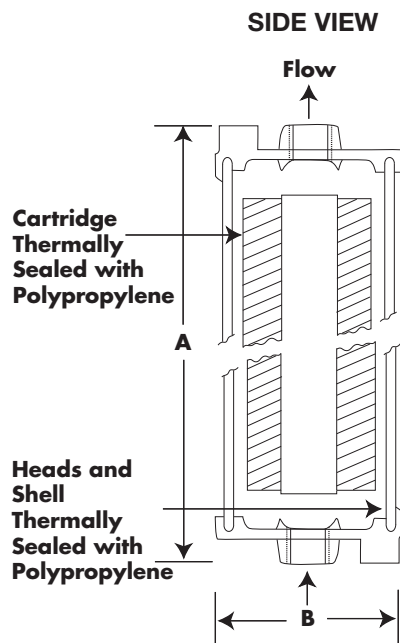
Spiral Wrapped Polypropylene Sheets

Poly-Fine XLD Filter Media:

Pleated Depth Polypropylene

Varafine™/Water-Fine Filter Media:

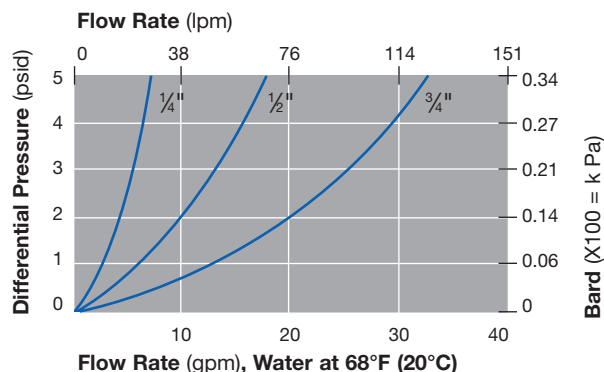
Highly Asymmetric Polysulfone Membrane



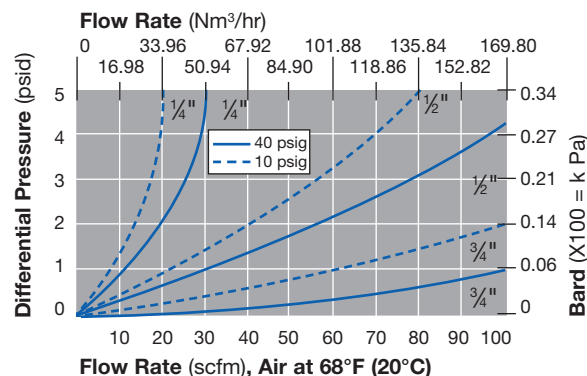
NOTES:

- Above data given for 1/4", 1/2", or 3/4" Inlet/Outlet Port.
- 1/4" configuration has three ports on each end.
Inlet: Main port, two closed ports.
Outlet: Vent, main port, extra drain.

Housing Differential Pressure vs. Liquid Flow Rate



Housing Differential Pressure vs. Gas Flow Rate



Dimensional Information

Model	Cartridge Length (Inches)	Port Size (Inches)	Dimensions (Inches)	
			A	B
PDF 4	4	1/4, 1/2	6	3 5/16
PDF 4	4	3/4	6 1/2	3 5/16
PDF 10	10	1/4, 1/2	12 1/2	3 5/16
PDF 10	10	3/4	13	3 5/16
PDF 20	20	1/4, 1/2	22 7/8	3 5/16
PDF 20	20	3/4	23 3/8	3 5/16
PDF 30	30	1/4, 1/2	32 3/8	3 5/16
PDF 30	30	3/4	33 3/8	3 5/16

Part Numbers/Ordering Information

PDF ♦ – PFT ■ – 10U
(e.g. PDF.75PFT0.45–10U)

Code	Inlet/Outlet Port Sizes
♦ .25	1/4"
♦ .50	1/2"
♦ .75	3/4"
♦ 1	1" NPT

Above example describes a PDF with 1/4 inch ports containing a 10" Poly-Fine filter cartridge with a 0.45 µm removal rating at 90% efficiency.

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